will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

For further details, see notes to Form PCT/ISA/220. 3.

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.. . .

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2004/001373

	Box No. I Basis of the opinion
1.	With regard to the language , this opinion has been established on the basis of the international application in he language in which it was field, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material:
	□ a sequence listing
	□ table(s) related to the sequence listing
	b. format of material:
	in written format
	☐ in computer readable form
	c. time of filling/furnishing:
	□ contained in the international application as filed.
	\square filed together with the international application in computer readable form.
	☐ furnished subsequently to this Authority for the purposes of search.
3	In addition, in the case that more than one version or copy of a sequence listing and/or table relating there has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4	Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2004/001373

_	Box No. II Priority					
	The following document has not been furnished:					
		pplication whose	priority has been claimed (Rule 43 <i>bis</i> .1 and 66.7(a)).			
	☐ translation of the ea	\Box translation of the earlier application whose priority has been claimed (Rule 43 bis.1 and 66.7(b)).				
			sider the validity of the priority claim. This opinion has ption that the relevant date is the claimed priority date.			
•	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.					
	Additional observations, if nece	ssary:				
_	Box No. V Reasoned stater	nent under Rule	43 <i>bis.</i> 1(a)(i) with regard to novelty, inventive step or ions supporting such statement	r		
	Statement	Jiis and explanat				
•		Yes: Claims	1-7			
	Novelty (N)	No: Claims				
	Lucation stem (IC)	Yes: Claims				
	Inventive step (IS)	No: Claims	•			
	Industrial applicability (IA)	Yes: Claims	1-7			
	madelial applications (if i)	No: Claims				
<u>.</u>	Citations and explanations					
	see separate sheet					
	•	•				
	,					
_	Box No. VII Certain defects	in the internation	nal application			
			international application have been noted:			
• '	see separate sheet					
	See Separate Shoot					
	D. M. Will Contain 1	estions on the in	ternational application			
_			ms, description, and drawings or on the question whether	or the		

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Re Item V.

- 1 The following documents are referred to in this communication:
 - D1: "MUNICH MEETING OF MPEG-4 WORKING GROUP. REPORT ISO/IEC JTC1/SC29/WG11 MPEG4/N1172" INTERNATIONAL ORGANIZATION FOR STANDARDIZATION - ORGANISATION INTERNATIONALE DE NORMALISATION, XX, XX, 1996, pages 3-49, XP002047798
 - D2: EBRAHIMI T: "MPEG-4 video verification model: A video encoding/decoding algorithm based on content representation" SIGNAL PROCESSING. IMAGE COMMUNICATION, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 9, no. 4, 1 May 1997 (1997-05-01), pages 367-384, XP004075336 ISSN: 0923-5965
 - D3: EP 0 891 093 A (MATSUSHITA ELECTRIC IND CO LTD) 13 January 1999 (1999-01-13)
- 2 Inventive Step
- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject matter of claims 1, 2, 4, 5, 6 does not involve an inventive step in the sense of Article 33(3)PCT.
- 2.1.1 Document D1, which is considered to represent the most relevant state of the art to the subject matter of claim 1, discloses:

An encoding method which is applied to an input video sequence corresponding to successive scenes subdivided into video object planes (see abstract) and generating, for coding all the video objects of said scenes, a coded bitstream the content of which is described by means of a bitstream syntax allowing to recognize and decode all the elements of said content, including temporal prediction, in which the temporal prediction being chosen within a list comprising (see paragraph 3.3.2) the following situations:

- the temporal prediction is formed by directly applying the morion field sent by the encoder on one or more reference pictures;
- the temporal prediction is a copy of a reference image;
- the temporal prediction is formed by the temporal interpolation of the

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motion field;

- the temporal prediction is formed by the temporal interpolation of the current motion field and further refined by the motion field sent by the encoder;

Differently than shown in D1 it is claimed in claim 1 that the channels are described independently and that additional syntactic information is included at slice level in the bitstream.

The skilled person working according to the method of D1, and confronted with the problem of improving the coding efficiency of the method of D1 will be aware of document D3. Document D3 shows (see e.g. figure 1) the inclusion of additional syntactic elements to include motion estimation for the different channels, As at is well known in the art to provide coding specifics at slice level, the skilled person will readily considered to implement the syntactic element at slice level and will arrive at the full combination of features of claim 1, without the exercise of any inventive step.

Consequently the subject-matter of current claim 1 lacks inventive step.

Incidently it is noted that subject-matter of claim 1 is also considered to lack inventive step based on the combination of documents D2 and D3 for substantially the same reasoning as set out above.

2.1.2 Independent claim 2:

The subject-matter of claim 2 relates to an encoding method which substantially corresponds to that of claim 1, with the difference that the syntactic elements are placed at macroblock level. The inclusion of a syntactic element at macroblock level is considered to be obvious for similar reasons as set out above for claim 1.

2.1.3 Independent claim 4

The subject-matter of claim 4 relates to an encoding apparatus functioning corresponding to the method of claims 1 and 2. Consequently the subject-matter of this claim is considered to lack inventive step for substantially the

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same reasons as set out above for claim 1.

2.1.4 Independent claim 5

The subject-matter of claim 5 relates to a signal which has been generated in accordance with a method as set out in claims 1 or 2. Consequently the subject-matter of this claim also lack inventive step for substantially the same reasons as set out above for claims 1 and 2.

2.1.5 Independent claim 6

The subject-matter of claim 6 relates to a method for decoding a signal which has been generated in accordance with a method as set out in claims 1 or 2. Consequently the subject-matter of this claim also lack inventive step for substantially the same reasons as set out above for claims 1 and 2.

2.1.6 Independent claim 7

The subject-matter of claim 7 relates to an decoding apparatus functioning corresponding to the method of claims 6. Consequently the subject-matter of this claim is considered to lack inventive step for substantially the same reasons as set out above for claim 6.

2.1.7 Dependent claim 3

It is well known in the art to include a syntactic element having the same meaning for different channels, consequently the subject-matter of claim 3 is obvious.

3. Article 33(4)

The subject-matter of claims 1-7 is industrially applicable in the field of image encoding.

Re Item VII.

International application No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

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Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1-D3 is not mentioned in the description, nor are these documents identified therein.

Re Item VIII.

Article 6 PCT

The requirements of Article 6 PCT have not been met because claims 4 and 7 are not fully clear.

It is not clear what features the encoder and the decoder according to claims 4 and 7 actually comprise.